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PATENTS
Attorney Docket No. 8011-16

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : James J. Fallon et al.
Application No. : 10/076,013 Confirmation No. : 7350
Filing Date : February 13, 2002
Title : BANDWIDTH SENSITIVE DATA COMPRESSION
AND DECOMPRESSION
Art Unit : 2611
Examiner : Tesfaldet Bocure

New York, New York 10020
August 29, 2006

Hon. Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATION

Sir:

"Express Mail" mailing label number EV620760965US

Date of Deposit August 29, 2006

I hereby certify that the papers and fees identified below are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and are addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Supplemental Information Disclosure Statement (in duplicate);

Form PTO/SB/08A (in duplicate); and,

Return Postcard.


Isatta B. Smith



PATENTS
8011-16

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Applicants : James J. Fallon et al.
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Commissioner for Patents
P.O. Box 1450 New York, New York 10020
Alexandria, VA 22313-1450 August 29, 2006

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97, applicants
hereby make the following documents of record in the above-
identified patent application:

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Copies of the aforementioned non-U.S. patent documents and non-patent documents, which are listed on the accompanying Form SB/08A (submitted in duplicate), are enclosed herewith.

The above-identified documents marked with the numeral one, (1), were cited in U.S. Patent Application No. 09/210,491 in the Office Action mailed on May 19, 2000.

The above-identified document marked with the numeral two, (2), was cited in U.S. Patent Application No. 09/705,446 in the Office Action mailed on April 10, 2001.

The above-identified documents marked with the numeral three, (3), were cited in U.S. Patent Application No. 09/579,221 in the Notice of Allowance mailed on February 28, 2003.

The above-identified documents marked with the numeral four, (4), were cited in U.S. Patent Application No. 09/266,394 in the Office Action mailed on February 1, 2002.

The above-identified document marked with the numeral five, (5), was cited in the U.S. Patent Application No. 09/266,394 in the Notice of Allowance mailed on July 29, 2002.

The above-identified documents marked with the numeral six, (6), were cited in the U.S. Patent Application No. 09/481,243 in the Office Action mailed on June 26, 2002.

The above-identified documents marked with the numeral seven, (7), were cited in the U.S. Patent Application

No. 10/016,355 in the Office Action mailed on November 22, 2002.

The above-identified document marked with the numeral eight, (8), was cited in the U.S. Patent Application No. 10/016,355 in the Notice of Allowance mailed on April 18, 2003.

The above-identified documents marked with the numeral nine, (9), were cited in the U.S. Patent Application No. 09/775,905 in the Office Action mailed on April 23, 2003.

The above-identified documents marked with the numeral ten, (10), were cited in the U.S. Patent Application No. 10/628,801 in the Office Action mailed on March 17, 2005.

The above-identified documents marked with the numeral eleven, (11), were cited in the U.S. Patent Application No. 10/628,795 in the Office Action mailed on November 12, 2004.

The above-identified documents marked with the numeral twelve, (12), were cited in the U.S. Patent Application No. 09/776,267 in the Office Action mailed on February 10, 2004.

The above-identified documents marked with the numeral thirteen, (13), were cited in the U.S. Patent

Application No. 09/776,267 in the Office Action mailed on October 25, 2004.

The above-identified documents marked with the numeral fourteen, (14), were cited in the U.S. Patent Application No. 09/776,267 in the Office Action mailed on June 6, 2005.

The above-identified documents marked with the numeral fifteen, (15), were cited in the U.S. Patent Application No. 09/776,267 in the Office Action mailed on February 14, 2006.

The above-identified documents marked with the numeral sixteen, (16), were cited in the U.S. Patent Application No. 10/306,581 in the Office Action mailed on June 29, 2004.

The above-identified document marked with the numeral seventeen, (17), was cited in the U.S. Patent Application No. 10/668,768 in the Office Action mailed on February 20, 2004.

The above-identified document marked with the numeral eighteen, (18), was cited in the U.S. Patent Application No. 10/668,768 in the Office Action mailed on July 28, 2005.

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The above-identified documents marked with the numeral twenty, (20), were cited in the U.S. Patent Application No. 09/969,987 in the Office Action mailed on January 26, 2005.

The above-identified document marked with the numeral twenty-one, (21), was cited in the U.S. Patent Application No. 09/969,987 in the Office Action mailed on September 12, 2005.

The above-identified documents marked with the numeral twenty-two, (22), were cited in the U.S. Patent Application No. 09/969,987 in the Office Action mailed on June 19, 2006.

The above-identified documents marked with the numeral twenty-three, (23), were cited in the U.S. Patent Application No. 09/775,897 in the Office Action mailed on December 24, 2003.

The above-identified documents marked with the numeral twenty-four, (24), were cited in the U.S. Patent

Application No. 10/306,581 in the Office Action mailed on July 24, 2006.

The above-identified documents marked with the numeral twenty-five, (25), were cited in an International Search Report ("ISR") in PCT Application No. PCT/US01/03712. A copy of this ISR is being submitted herewith.

The above-identified documents marked with the numeral twenty-six, (26), were cited in an International Search Report ("ISR") in PCT Application No. PCT/US01/03711. A copy of this ISR is being submitted herewith.

The above-identified documents marked with the numeral twenty-seven, (27), were cited in an International Search Report ("ISR") in PCT Application No. PCT/US00/42018. A copy of this ISR is being submitted herewith.

Documents included in the above-identified Office Actions, Notices of Allowance, and Search Reports that are not being cited herewith are already of record in the present application.

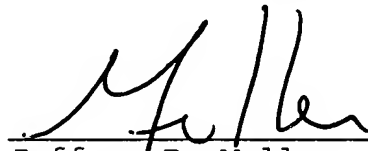
It is respectfully requested that these documents be: (1) fully considered by the Patent and Trademark Office during the examination of this application; and (2) printed on any patent which may issue on this application. Applicants request

that a copy of Form SB/08A, as considered and initialed by the Examiner, be returned with the next communication.

This Statement is submitted after the mailing of a first Office Action on the merits. In accordance with 37 C.F.R. §197(c)(2), submission of this Statement requires a fee of \$180.00. The Director is hereby authorized to charge payment of \$180.00 and any other fees required in connection with this paper, or credit any overpayment of the same, to Deposit Account No. 06-1075, Order No. 103532-0002. A duplicate copy of this paper is being submitted herewith.

An early and favorable action is respectfully requested.

Respectfully submitted,



Jeffrey D. Mullen

Registration No. 52,056

Agent for Applicants

☒ Submitted under 37 C.F.R. § 1.34

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Substitute for form 1449A/PTO

**FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 11

Complete if known

Application Number	10/076,013
Filing Date	February 13, 2002
First Named Inventor	Fallon
Art Unit	2611
Examiner Name	Tesfaldet Bocure
Attorney Docket Number	8011-16

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
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		4,302,775	11-24-1981	Widergren et al.	
		4,574,351	03-04-1986	Dang et al.	
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		5,028,922	07-02-1991	Huang	
		5,045,848	09-03-1991	Fascenda	
		5,045,852	09-03-1991	Mitchell et al.	
		5,046,027	09-03-1991	Taaffe et al.	
		5,049,881	09-17-1991	Gibson et al.	
		5,097,261	03-17-1992	Langdon, Jr. et al.	
		5,113,522	05-12-1992	Dinwiddie, Jr. et al.	

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Considered

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				First Named Inventor	Fallon
				Art Unit	2611
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		5,121,342	06-09-1992	Szymborski	
		5,150,430	09-22-1992	Chu	
		5,175,543	12-29-1992	Lantz	
		5,179,651	01-12-1993	Taaffe et al.	
		5,187,793	02-16-1993	Keith et al.	
		5,204,756	04-20-1993	Chevion et al.	
		5,212,742	05-18-1993	Normile et al.	
		5,226,176	07-06-1993	Westaway et al.	
		5,231,492	07-27-1993	Dangi et al.	
		5,237,460	08-17-1993	Miller et al.	
		5,237,675	08-17-1993	Hannon, Jr.	
		5,243,341	09-07-1993	Seroussi et al.	
		5,243,348	09-07-1993	Jackson	
		5,247,638	09-21-1993	O'Brien et al.	
		5,247,646	09-21-1993	Osterlund et al.	
		5,263,168	11-16-1993	Toms et al.	
		5,270,832	12-14-1993	Balkanski et al.	
		5,287,420	02-15-1994	Barrett	
		5,293,379	03-08-1994	Carr	
		5,307,497	04-26-1994	Feigenbaum et al.	
		5,309,555	05-03-1994	Akins et al.	
		5,355,498	10-11-1994	Provino et al.	
		5,357,614	10-18-1994	Pattisam et al.	
		5,379,036	01-03-1995	Storer	

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	5,381,145	01-10-1995	Allen et al.	
	5,394,534	02-28-1995	Kulakowski et al.	
	5,396,228	03-07-1995	Garahi	
	5,406,278	04-11-1995	Graybill et al.	
	5,406,279	04-11-1995	Anderson et al.	
	5,412,384	05-02-1995	Chang et al.	
	5,414,850	05-09-1995	Whiting	
	5,420,639	05-30-1995	Perkins	
	5,452,287	09-19-1995	Dicecco	
	5,461,679	10-24-1995	Normile et al.	
	5,467,087	11-14-1995	Chu	
	5,471,206	11-28-1995	Allen et al.	
	5,479,587	12-26-1995	Campbell et al.	
	5,486,826	01-23-1996	Remillard	
	5,495,244	02-27-1996	Je-Chang et al.	
	5,506,844	04-09-1996	Rao	
	5,506,872	04-09-1996	Mohler	
	5,530,845	06-25-1996	Hiatt et al.	
	5,533,051	07-02-1996	James	
	5,535,356	07-09-1996	Kim et al.	
	5,537,658	07-16-1996	Bakke et al.	
	5,557,668	09-17-1996	Brady	
	5,557,749	09-17-1996	Norris	
	5,561,824	10-01-1996	Carreiro et al.	

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		5,574,952	11-12-1996	Brady et al.	
		5,576,953	11-19-1996	Hugentobler	
		5,583,500	12-10-1996	Allen et al.	
		5,590,306	12-31-1996	Watanabe et al.	
		5,596,674	01-21-1997	Bhandari et al.	
		5,604,824	02-18-1997	Chui et al.	
		5,606,706	02-25-1997	Takamoto et al.	
		5,612,788	03-18-1997	Stone	
		5,615,017	03-25-1997	Choi	
		5,621,820	04-15-1997	Rynderman et al.	
		5,623,623	04-22-1997	Kim et al.	
		5,623,701	04-22-1997	Bakke et al.	
		5,627,534	05-06-1997	Craft	
		5,627,995	05-06-1997	Miller et al.	
		5,629,732	05-13-1997	Moskowitz et al.	
		5,630,092	05-13-1997	Carreiro et al.	
		5,642,506	06-24-1997	Lee	
		5,649,032	07-16-1997	Burt et al.	
		5,652,795	07-29-1997	Dillon et al.	
		5,652,857	07-29-1997	Shimoi et al.	
		5,652,917	07-29-1997	Maupin et al.	
		5,654,703	08-05-1997	Clark, II	
		5,655,138	08-05-1997	Kikinis	
		5,666,560	09-09-1997	Moertl et al.	

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		5,668,737	09-16-1997	Iler	
		5,671,389	09-23-1997	Saliba	
		5,694,619	12-02-1997	Konno	
		5,696,927	12-09-1997	MacDonald et al.	
		5,703,793	12-30-1997	Wise et al.	
		5,715,477	02-03-1998	Kikinis	
		5,717,393	02-10-1998	Nakano et al.	
		5,717,394	02-10-1998	Schwartz et al.	
		5,721,958	02-24-1998	Kikinis	
		5,724,475	03-03-1998	Kirsten	
		5,729,228	03-17-1998	Franaszek et al.	
		5,748,904	05-05-1998	Huang et al.	
		5,757,852	05-26-1998	Jericevic et al.	
		5,771,340	06-23-1998	Nakazato et al.	
		5,778,411	07-07-1998	DeMoss et al.	
		5,781,767	07-14-1998	Inoue et al.	
		5,784,572	07-21-1998	Rostoker et al.	
		5,787,487	07-28-1998	Hashimoto et al.	
		5,799,110	08-25-1998	Israelsen et al.	
		5,805,932	09-08-1998	Kawashima et al.	
		5,808,660	09-15-1998	Sekine et al.	
		5,809,176	09-15-1998	Yajima	
		5,809,337	09-15-1998	Hannah et al.	
		5,812,789	09-22-1998	Diaz et al.	

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		5,818,368	10-06-1998	Langley	
		5,818,369	10-06-1998	Withers	
		5,818,530	10-06-1998	Canfield et al.	
		5,819,215	10-06-1998	Dobson et al.	
		5,825,424	10-20-1998	Canfield et al.	
		5,832,037	11-03-1998	Park	
		5,832,126	11-03-1998	Tanaka	
		5,836,003	11-10-1998	Sadeh	
		5,838,996	11-17-1998	deCarmo	
		5,839,100	11-17-1998	Wegener	
		5,841,979	11-24-1998	Schulhof et al.	
		5,847,762	12-08-1998	Canfield	
		5,861,824	01-19-1999	Ryu et al.	
		5,861,920	01-19-1999	Mead et al.	
		5,870,036	02-09-1999	Franaszek et al.	
		5,870,087	02-09-1999	Chau	
		5,872,530	02-16-1999	Domyo et al.	
		5,883,975	03-16-1999	Narita et al.	
		5,886,655	03-23-1999	Rust	
		5,889,961	03-30-1999	Dobbek	
		5,915,079	06-22-1999	Vondran, Jr. et al.	
		5,917,438	06-29-1999	Ando	
		5,920,326	07-06-1999	Rentschler et al.	
		5,936,616	08-10-1999	Torborg, Jr. et al.	

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		5,949,355	09-07-1999	Panaoussis	
		5,955,976	09-21-1999	Heath	
		5,960,465	09-28-1999	Adams	
		5,964,842	10-12-1999	Packard	
		5,968,149	10-19-1999	Jaquette et al.	
		5,973,630	10-26-1999	Heath	
		5,974,471	10-26-1999	Belt	
		5,991,515	11-23-1999	Fall et al.	
		5,996,033	11-30-1999	Chiu-Hao	
		6,000,009	12-07-1999	Brady	
		6,002,411	12-14-1999	Dye	
		6,003,115	12-14-1999	Spear et al.	
		6,011,901	01-04-2000	Kirsten	
		6,014,694	01-11-2000	Aharoni et al.	
		6,026,217	02-15-2000	Adiletta	
		6,028,725	02-22-2000	Blumenau	
		6,031,939	02-29-2000	Gilbert et al.	
		6,032,148	02-29-2000	Wilkes	
		6,061,398	05-09-2000	Satoh et al.	
		6,073,232	06-06-2000	Kroeker et al.	
		6,075,470	06-13-2000	Little et al.	
		6,094,634	07-25-2000	Yahagi et al.	
		6,105,130	08-15-2000	Wu et al.	
		6,128,412	10-03-2000	Satoh	

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	6,141,053	10-31-2000	Saukkonen	
	6,145,069	11-07-2000	Dye	
	6,172,936	01-09-2001	Kitazaki	
	6,173,381	01-09-2001	Dye	
	6,192,082	02-20-2001	Moriarty et al.	
	6,195,024	02-27-2001	Fallon	
	6,226,667	05-01-2001	Matthews et al.	
	6,226,740	05-01-2001	Iga	
	6,253,264	06-26-2001	Sebastian	
	6,272,627	08-07-2001	Mann	
	6,272,628	08-07-2001	Aguilar et al.	
	6,282,641	08-28-2001	Christensen	
	6,309,424	10-30-2001	Fallon	
	6,317,714	11-13-2001	Del Castillo et al.	
	6,330,622	12-11-2001	Schaefer	
	6,345,307	02-05-2002	Booth	
	6,421,387	07-16-2002	Rhee	
	6,434,168	08-13-2002	Kari	
	6,434,695	08-13-2002	Esfahani et al.	
	6,442,659	08-27-2002	Blumenau	
	6,449,682	09-10-2002	Toorians	
	6,452,602	09-17-2002	Morein	
	6,463,509	10-08-2002	Teoman et al.	
	6,489,902	12-03-2002	Heath	

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		6,513,113	01-28-2003	Kobayashi	
		6,529,633	03-04-2003	Easwar et al.	
		6,539,456	03-25-2003	Stewart	
		6,542,644	04-01-2003	Satoh	
		6,590,609	07-08-2003	Kitade et al.	
		6,604,158	08-05-2003	Fallon	
		6,606,040	08-12-2003	Abdat	
		6,606,413	08-12-2003	Zeineh	
		6,618,728	09-09-2003	Rail	
		6,624,761	09-23-2003	Fallon	
		6,704,840	03-09-2004	Nalawadi et al.	
		6,711,709	03-23-2004	York	
		6,745,282	06-01-2004	Okada et al.	
		6,856,651	02-15-2005	Singh	
		6,888,893	05-03-2005	Li et al.	
		7,054,493	05-30-2006	Schwartz	
		2001/ 0032128	10-18-2001	Kepecs	
		2002/ 0037035	03-28-2002	Singh	
		2002/ 0104891	08-08-2002	Otto	
		2002/ 0126755	09-12-2002	Li et al.	
		2003/ 0034905	02-20-2003	Anton et al.	
		2003/ 0084238	05-01-2003	Okada et al.	
		2003/ 0142874	07-31-2003	Schwartz	

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Substitute for form 1449A/PTO FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if known	
				Application Number Filing Date First Named Inventor Art Unit Examiner Name Attorney Docket Number	10/076,013 February 13, 2002 Fallon 2611 Tesfaldet Bocure 8011-16
Sheet	10	of	11		

FOREIGN PATENT DOCUMENTS						
Examiner initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		DE 4127518	02-27-1992	Tokico Ltd		
		EP 0164677	12-18-1985	Texas Instruments Inc.		
		EP 0185098	06-25-1986	Hitachi Ltd		
		EP 0283798	09-28-1988	International Business Machines Corporation		
		EP 0405572	06-29-1990	Fujitsu Limited		
		EP 0493130	12-27-1991	Canon Kabushiki Kaisha		
		EP 0595406	05-04-1994	Philips Electronics		
		EP 0718751	06-26-1996	International Business Machines Corporation		
		GB 2162025	01-22-1986	King Reginald Alfred		
		JP 6051989	02-25-1994	Nippon Electric Co.		
		JP 9188009	01-09-1996	Canon Inc.		
		JP 11149376	06-02-1999	Toyo Commun Equip Co. Ltd		
		WO 9414273	06-23-1994	Voxson International Pty Ltd		
		WO 9429852	12-22-1994	Maxtor Corp		
		WO 9502873	01-26-1995	Philips Electronics		
		WO 9748212	06-03-1997	Nokia Telecommunications		

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				Examiner Name	Tesfaldet Bocure
				Attorney Docket Number	8011-16
Sheet	11	of	11		

NON PATENT LITERATURE DOCUMENTS			
Examiner initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		RICE, ROBERT F., "Some Practical Universal Noiseless Coding Techniques", Jet Propulsion Laboratory, Pasadena, California, JPL Publication 79-22, 15 March 1979.	
		ANDERSON, J., et al. "Codec squeezes color teleconferencing through digital telephone lines", Electronics 1984, pp. 13-15	
		VENBRUX, JACK, "A VLSI Chip Set for High-Speed Lossless Data Compression", IEEE Trans. On Circuits and Systems for Video Technology, Vol. 2, No. 44, December 1992, pp. 381-391	
		"Fast Dos Soft Boot", IBM Technical Disclosure Bulletin, Feb. 1994, Vol. 37, Issue No. 2B, pp. 185-186	
		"Operating System Platform Abstraction Method", IBM Technical Disclosure Bulletin, Feb. 1995, Vol. 38, Issue No. 2, pp. 343-344	
		MURASHITA, K., et al., "High-Speed Statistical Compression using Self-organized Rules and Predetermined Code Tables", IEEE, 1996 Data Compression Conference	
		COENE, W., et al. "A Fast Route For Application of Rate-distortion Optimal Quantization in an MPEG Video Encoder" Proceedings of the International Conference on Image Processing, US., New York, IEEE, 16 September 1996, pp. 825-8286	
		RICE, ROBERT, "Lossless Coding Standards for Space Data Systems", IEEE 1058-6393/97, pp. 577-585	
		YEH, PEN-SHU, "The CCSDS Lossless Data Compression Recommendation for Space Applications", Chapter 16, Lossless Compression Handbook, Elsevier Science (USA), 2003, pp. 311-326.3	

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